

UNITED STATES DEPARTMENT OF THE INTERIOR
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Spectrographic analyses of insoluble-residue samples,
Harrison 1° x 2° quadrangle, Missouri and Arkansas:
Drill holes nos. 21, 23, and 24

by

M. S. Erickson and B. Chazin

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S. Geological Survey.

U.S. Geological Survey, P.O. Box 25046, DFC, MS 973, Denver, Colorado 80225

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INTRODUCTION

Geochemical studies of the Harrison $1^{\circ} \times 2^{\circ}$ quadrangle, Missouri and Arkansas, were begun in 1983 as part of a multidisciplinary study of the quadrangle by the U.S. Geological Survey, the Missouri Division of Geology and Land Survey, and the Arkansas Geological Commission. The purpose of the study was to assess the mineral resource potential of the area by integrated geologic, geochemical, and geophysical studies.

The geochemical work has been directed at the characterization of the sedimentary rocks in the quadrangle through spectrographic analyses of dilute-hydrochloric-acid insoluble-residue samples of whole rock from widely spaced drill holes. Drill holes have been selected for study from the sample libraries of the Missouri Division of Geology and Land Survey and the Arkansas Geological Commission. None of the holes are company confidential and none intersect economically significant mineralized ground.

The analytical results for drill hole no. 21 (Arkansas I.D., City of Norfolk #1 Water Well, Baxter Co. 1507), drill hole no. 23 (Arkansas I.D., Schal #1 Hudgins Farms, Madison Co. 2348), and drill hole no. 24 (Arkansas I.D., Gateway Well, Benton Co.) are given in this report. Drill hole no. 21 is located in sec. 21, T. 18 N., R. 12 W. in Baxter County, Arkansas; drill hole no. 23 is located in sec. 12, T. 18 N., R. 27 W. in Madison County, Arkansas; and drill hole no. 24 is located in sec. 14, T. 21 N., R. 28 W. in Benton Co., Arkansas. Data for the insoluble-residue samples in drill holes 21, 23, and 24 are listed in tables 1, 2, and 3, respectively. State I.D., well name and/or well county number, county, and location allow identification and the ability to locate samples in Arkansas at the Arkansas Geologic Commission, Little Rock, Arkansas.

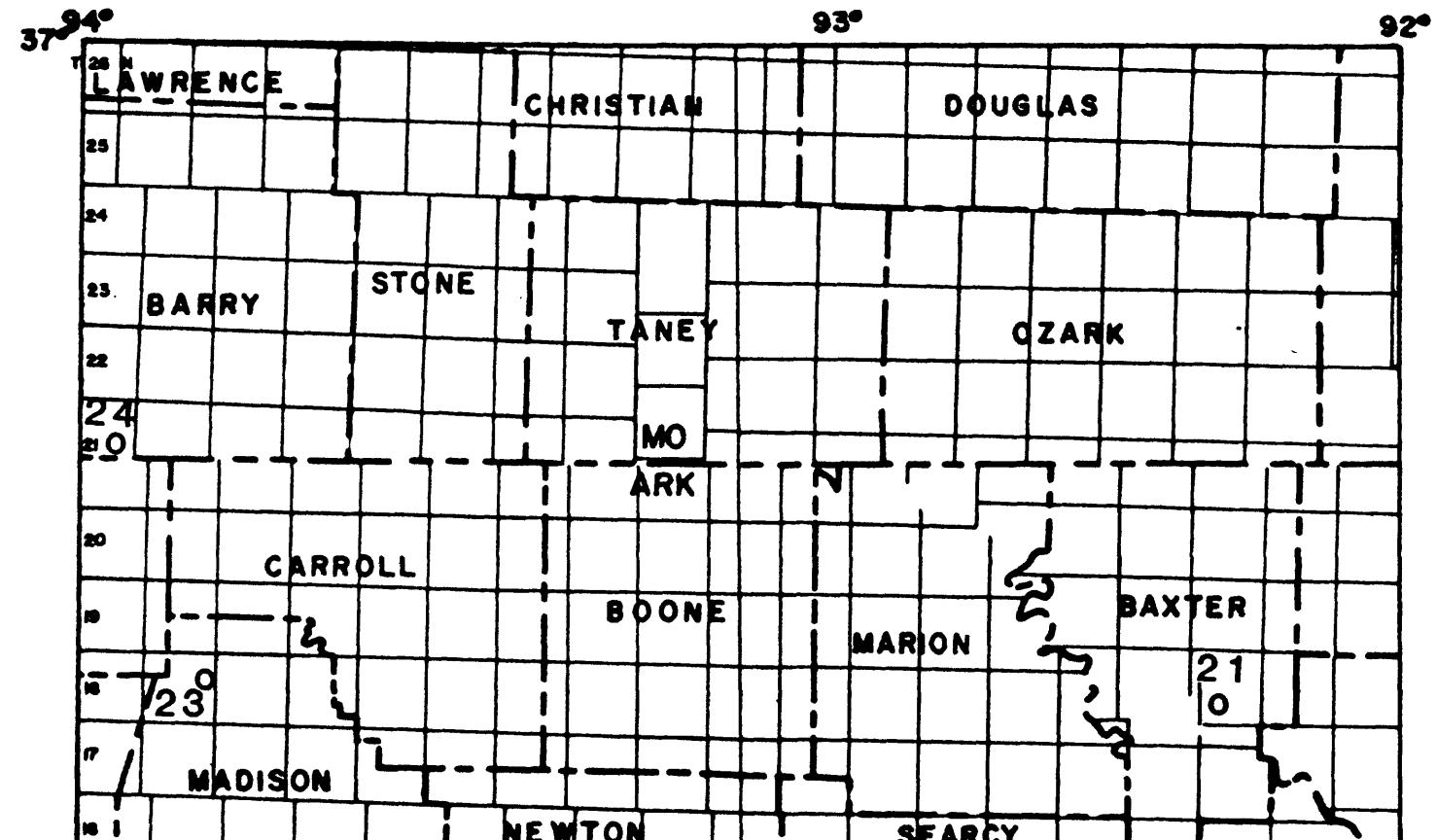
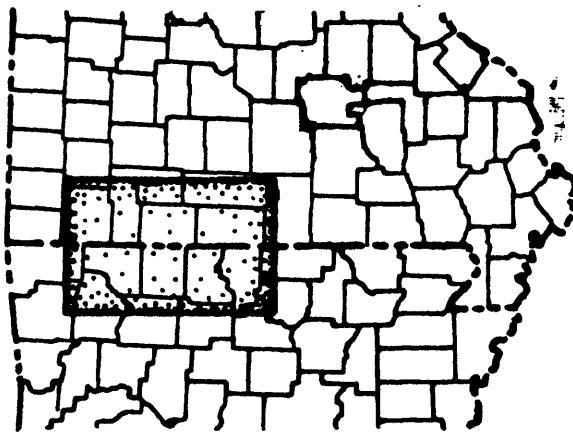
PREPARATION AND ANALYSIS OF SAMPLES

Insoluble residues were prepared by dissolving approximately 80 grams of crushed carbonate rock in repeated applications of 1:5 hydrochloric acid until the carbonate was removed. The samples were then filtered and dried overnight at 50°C .

The samples were then pulverized to minus 140 mesh (0.105 mm) in a vertical grinder equipped with ceramic plates. Some insoluble-residue samples contained only a few milligrams of material, and these were hand ground in an agate mortar and pestle. A hand magnet was passed over the insoluble-residue samples before grinding to remove filings or chips of drill bit that might have been present.

Each sample was analyzed semiquantitatively for 31 elements using a six-step D.C.-arc optical-emission spectrographic method (Grimes and Marranzino, 1968).

The semiquantitative spectrographic values are reported as six steps per order of magnitude (1, 0.7, 0.5, 0.3, 0.2, and 0.15) and are approximate geometric midpoints of the concentration ranges. The precision is shown to be within one adjoining reporting interval on each side of the reported value 83 percent of the time and within two adjoining intervals on each side of the reported value 96 percent of the time (Motooka and Grimes, 1976).



HARRISON 1° X 2° QUADRANGLE

Locations of drill holes discussed in this report

The visual lower limits of determination for the 31 elements that were determined spectrographically for this report are as follows:

For those given in percent:

Calcium	0.05
Iron	0.05
Magnesium	0.02
Titanium	0.002

For those given in ppm:

Antimony	100	Molybdenum	5
Arsenic	200	Nickel	5
Barium	20	Niobium	20
Beryllium	1	Scandium	5
Bismuth	10	Silver	0.5
Boron	10	Strontium	100
Cadmium	20	Thorium	100
Chromium	10	Tin	10
Cobalt	5	Tungsten	50
Copper	5	Vanadium	10
Gold	10	Yttrium	10
Lanthanum	20	Zinc	200
Lead	10	Zirconium	10
Manganese	10		

DESCRIPTION OF DATA TABLES

Each sample is identified by an eight-character code beginning with the letter H, signifying Harrison. The letter R either follows this number or appears at the end of the character code, and signifies insoluble residue. The next number signifies the USGS drill-hole number. The last four digits identify the depth of the sample from the drill-hole collar. Samples are composites of from 10-100' intervals, dependent upon the original sample interval and upon the amount of sample material available for analysis.

The stratigraphic unit of the sample is identified by a coded number in the last column (tables 1 through 3) following the thorium column. The code and formation names are as follows:

<u>Code</u>	<u>Formation</u>
16	Eminence Dolomite
17	Gunter Sandstone member of the Gasconade Formation
18	Gasconade Dolomite
19	Roubidoux Formation
30	Chattanooga Shale
31	Undifferentiated Mississippian units
39	Jerrerson City--Cotter Undifferentiated
40	Undifferentiated Ordovician units

EXPLANATION OF DATA

The columns in tables 1 through 3 have headings of sample, elements, and formation. The letter S over the columns signifies emission-spectrographic data.

Iron, magnesium, calcium, and titanium are reported in percent (%); all other elements are in parts per million. Other symbols shown on the tables are:

N = Not detected at the limit of determination shown;
< = Detected, but below the limit of determination shown; and
> = Greater than the limit of determination shown.

Because of the formatting used in the computer program that produced tables 1-3, some of the elements listed in these tables (Fe, Mg, Ca, Ti, Ag, and Be) carry one or more nonsignificant zeros to the right of the significant digits. The analyst did not determine these elements to the accuracy suggested by the extra zeros.

NOTE: The high cobalt and chromium values in H21R1000, H21R1300, and H21R1350 are due to the probable contamination of drill steel.

RASS

Upon completion of all analytical work, the information from the samples is entered into a computer-based file called RASS (Rock Analysis Storage System). This RASS file contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and placed in a standard form (STATPAC) for computerized statistical manipulation or publication (VanTrump and Miesch, 1977).

ACKNOWLEDGMENTS

The authors wish to thank the Missouri Division of Geology and Land Survey--Dr. Wallace B. Howe, former Director, and Dr. J. Hadley Williams, Director--and the Arkansas Geological Commission, Dr. Norman F. Williams, State Geologist, for making these drill-hole samples available from their sample libraries.

REFERENCES

- Grimes, D. J., and Marranzino, A. P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6 p.
- Missouri Geological Survey, 1979, Geologic Map of Missouri: Rolla, Missouri, scale 1:500,000.
- Motooka, J. M., and Grimes, D. J., 1976, Analytical precision of one-sixth order semiquantitative spectrographic analyses: U.S. Geological Survey Circular 738, 25 p.
- VanTrump, George, Jr., and Miesch, A. T., 1977, The U.S. Geological Survey RASS-STATPAC system for management and statistical reduction of geochemical data: Computers and Geosciences, v. 3, p. 475-488.

TABLE 1.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H21, HARRISON 1 X 2
 [N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
H21R0060	2.00	1.00	.10	.500	30	N	N	200	300
H21R0120	1.50	.70	.20	.300	20	N	N	200	200
H21R0200	.50	.30	.10	.150	10	N	N	150	200
H21R0300	1.00	.30	.20	.150	10	N	N	150	300
H21R0400	1.50	.30	.10	.150	10	N	N	100	200
H21R0500	2.00	1.00	.50	.300	20	N	N	150	300
H21R0550	1.00	.70	.15	.200	15	N	N	100	300
H21R0600	1.00	.50	.15	.150	15	N	N	100	200
H21R0650	7.00	.70	.10	.300	15	N	N	150	200
H21R0710	10.00	.70	.15	.200	15	N	N	100	200
H21R0750	1.50	.15	.07	.100	20	N	N	100	150
H21R0800	3.00	.50	.20	.150	20	N	N	100	150
H21R0850	2.00	.10	.05	.100	10	N	N	70	150
H21P0900	.30	.10	.05	.050	20	N	N	100	200
H21R0950	.10	.05	.05	.030	15	N	N	50	150
H21R1000	.70	.10	.07	.050	15	N	N	30	100
H21R1050	.10	.05	<.05	.020	10	N	N	50	70
H21R1100	.15	.10	.07	.050	15	N	N	50	50
H21R1150	.20	.03	.10	.005	10	N	N	50	100
H21R1200	2.00	.05	.05	.020	10	N	N	30	150
H21R1250	.70	.05	.07	.005	<10	N	N	50	50
H21R1300	.50	.03	.05	.007	<10	N	N	50	20
H21R1350	1.00	.10	.10	.010	10	N	N	50	100
H21R1400	.70	.02	<.05	.010	<10	N	N	50	<20
H21P1450	.50	.03	.07	.010	<10	N	N	50	100
H21R1500	.10	.02	<.05	.007	<10	N	N	70	20

TABLE 1--- SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H21, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.--Continued

Sample	Ba-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mn-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
H21R0060	1.5	N	N	5	200	70	N	20	N	50	50
H21R0120	1.0	N	N	<5	150	30	N	10	N	20	20
H21R0200	<1.0	N	N	N	50	<5	N	<5	N	7	<10
H21R0300	<1.0	N	N	<5	70	5	N	<5	N	10	10
H21R0400	<1.0	N	N	<5	50	10	N	<5	N	10	<10
H21R0500	1.0	N	N	5	70	30	N	5	N	15	10
H21R0550	<1.0	N	N	5	70	20	N	5	N	10	<10
H21R0600	<1.0	N	N	<5	30	10	N	<5	N	10	<10
H21R0650	1.0	N	N	5	70	30	N	10	N	20	30
H21R0710	<1.0	N	N	<5	70	20	N	15	N	15	<10
H21R0750	N	N	N	5	70	5	N	<5	N	10	<10
H21R0800	<1.0	N	N	<5	70	10	N	<5	N	15	10
H21R0850	N	N	N	<5	20	100	N	<5	N	10	10
H21R0900	N	N	N	<5	30	<5	N	N	N	7	<10
H21R0950	N	N	N	<5	20	<5	N	N	N	7	<10
H21R1000	N	N	N	500	500	<5	N	N	N	10	<10
H21R1050	N	N	N	5	20	<5	N	<5	N	5	<10
H21R1100	N	N	N	10	30	<5	N	<5	N	7	<10
H21R1150	N	N	N	7	15	<5	N	<5	N	7	<10
H21R1200	N	N	N	5	15	5	N	<5	N	10	<10
H21R1250	N	N	N	>2,000	10	<5	N	N	N	7	<10
H21R1300	N	N	N	300	>5,000	<5	N	<5	N	200	<10
H21R1350	N	N	N	500	500	<5	N	<5	N	15	<10
H21R1400	N	N	N	15	50	<5	N	<5	N	10	<10
H21R1450	N	N	N	20	100	<5	N	<5	N	10	<10
H21R1500	N	N	N	7	15	<5	N	N	N	10	<10

TABLE 1.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H21, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Form
H21R0060	N	7	N	<100	100	<50	N	N	100	39
H21R0120	N	7	N	150	100	<50	N	N	100	39
H21R0200	N	<5	N	100	50	<50	N	N	70	39
H21R0300	N	<5	N	100	100	<50	N	N	150	39
H21R0400	N	<5	N	<100	50	<50	N	N	100	39
H21R0500	N	7	N	100	100	<50	N	N	150	39
H21R0550	N	<5	N	100	50	<50	N	N	200	39
H21R0600	N	<5	N	100	50	<50	N	N	100	39
H21R0650	N	7	N	100	100	<50	N	N	200	39
H21R0710	N	5	N	100	50	200	N	N	100	39
H21R0750	N	<5	N	100	20	300	N	N	30	39
H21R0800	N	<5	N	100	50	10,000	N	N	50	39
H21R0850	N	<5	N	<100	30	<50	N	N	30	39
H21R0900	N	N	N	N	20	200	N	N	30	39
H21R0950	N	N	N	N	20	100	N	N	10	19
H21R1000	N	N	N	N	30	700	N	N	<10	19
H21R1050	N	N	N	N	20	100	N	N	30	18
H21R1100	N	N	N	N	20	300	N	N	10	18
H21R1150	N	N	N	N	20	100	N	N	N	18
H21R1200	N	N	N	N	20	100	N	N	N	18
H21R1250	N	N	N	N	15	150	N	N	30	18
H21R1300	N	N	N	N	20	300	N	N	N	18
H21R1350	N	N	N	N	20	300	N	N	N	18
H21R1400	N	N	N	N	20	100	N	N	N	18
H21R1450	N	N	N	N	20	50	N	N	N	18
H21R1500	N	N	N	N	20	<50	N	N	N	18

TABLE 2.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H23, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS.
 [N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	Ba-ppm s
H230100R	<.05	<.02	<.05	<.002	<10	N	N	N	<20
H230150R	.10	.02	.20	.010	<10	N	N	100	30
H230200R	.50	.15	.70	.050	20	N	N	70	50
H230250R	1.00	.10	.50	.030	15	N	N	50	30
H230290R	2.00	.50	.20	.200	20	N	N	100	50
H230300R	7.00	1.50	<.05	.500	70	N	N	150	500
H230390R	.50	<.02	<.05	.005	<10	N	N	10	N
H230430R	1.50	1.00	<.05	.200	10	N	N	200	20
H230500R	2.00	1.00	.10	.200	10	N	N	150	100
H230550R	2.00	1.00	.10	.200	15	N	N	200	200
H230600R	2.00	1.00	.05	.150	10	N	N	150	100
H230650R	1.00	.70	<.05	.100	10	N	N	150	70
H230700R	7.00	1.00	<.05	.200	10	N	N	200	150
H230750R	2.00	.30	<.05	.100	<10	N	N	100	50
H230800R	5.00	1.00	<.05	.200	10	N	N	150	70
H230850R	5.00	1.00	.05	.200	10	N	N	150	150
H230900R	5.00	1.00	.05	.300	15	<.5	N	200	200
H230950R	3.00	1.00	<.05	.150	10	<.5	N	150	100
H231000R	5.00	1.00	<.05	.200	15	<.5	N	200	150
H231050R	5.00	1.00	<.05	.200	15	N	N	200	200
H231100R	5.00	1.00	.05	.150	15	<.5	N	200	100
H231150R	2.00	1.00	<.05	.200	10	N	N	150	100
H231200R	2.00	1.00	<.05	.150	<10	N	N	100	20
H231250R	5.00	1.00	<.05	.300	15	<.5	N	200	100
H231300R	2.00	1.00	<.05	.200	15	<.5	N	200	100
H231350R	1.00	.50	<.05	.100	<10	N	N	100	50
H231400R	1.00	.50	<.05	.100	<10	N	N	150	50
H231470R	1.50	.50	<.05	.150	<10	N	N	150	50

TABLE 2.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H23, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ti-ppm s	Pb-ppm s
H230100R	1	N	N	N	<10	<10	<5	N	N	7	N
H230150R	N	N	N	N	<10	<10	<5	N	N	10	N
H230200R	N	N	N	N	5	<10	<5	N	N	20	N
H230250R	N	N	N	N	10	20	7	N	N	20	N
H230290R	<1.0	N	N	N	10	70	15	N	N	70	N
H230300R	1.5	N	N	N	20	<10	70	N	N	70	30
H230390R	N	N	N	N	N	50	<5	N	N	7	N
H230430R	<1.0	N	N	N	7	50	50	N	N	30	N
H230500R	N	N	N	N	N	7	50	20	N	20	15
H230550R	1.5	N	N	N	5	50	30	N	N	20	10
H230600R	<1.0	N	N	N	N	50	15	N	N	20	<10
H230650R	2.0	<1.0	N	N	<5	70	15	N	N	20	<10
H230700R	<1.0	N	N	N	10	70	50	N	N	70	20
H230750R	N	N	N	N	N	30	10	N	N	15	<10
H230800R	1.0	N	N	N	7	70	150	N	N	50	20
H230850R	1.0	N	N	N	N	5	70	20	N	N	30
H230900R	2.0	N	N	N	10	100	50	N	N	70	20
H230950R	<1.0	N	N	N	5	50	20	N	N	50	20
H231000R	1.5	N	N	N	10	100	50	N	N	70	30
H231050R	1.0	N	N	N	7	100	50	N	N	50	20
H231100R	1.5	N	N	N	N	7	100	50	N	N	50
H231150R	1.0	N	N	N	5	50	20	10	10	20	10
H231200R	N	N	N	N	5	30	20	7	7	30	<10
H231250R	1.5	N	N	N	5	100	50	5	5	50	20
H231300R	1.0	N	N	N	5	100	70	<5	<5	50	10
H231350R	<1.0	N	N	N	N	50	15	N	N	15	<10
H231400R	<1.0	N	N	N	50	15	20	N	N	15	<10
H231470R	1.0	N	N	N	<5	50	<5	N	N	50	<10

TABLE 2-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H23, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.--Continued

Sample	Sb=ppm s	Sc=ppm s	Sn=ppm s	Sr=ppm s	V=ppm s	W=ppm s	Y=ppm s	Zn=ppm s	Zr=ppm s	Th=ppm s	Form
H230100R	N	N	N	N	15	<50	N	N	N	N	31
H230150R	N	N	N	N	20	<50	N	N	N	N	31
H230200R	N	N	N	N	30	<50	N	<200	<10	N	31
H230250R	N	N	N	N	20	<50	N	<200	N	N	31
H230290R	N	7	N	N	150	<50	N	N	50	N	31
H230300R	N	15	N	N	200	<50	15	N	100	30	
H230390R	N	N	N	N	10	<50	N	N	10	40	
H230430R	N	7	N	N	100	<50	N	N	50	40	
H230500R	N	5	N	N	100	<50	N	N	50	40	
H230550R	N	5	N	N	100	<50	N	N	100	40	
H230600R	N	5	N	N	100	<50	N	N	50	40	
H230650R	N	<5	N	N	100	<50	N	N	30	40	
H230700R	N	7	N	N	150	<50	N	N	100	40	
H230750R	N	N	N	N	100	50	N	N	50	40	
H230800R	N	7	N	N	150	<50	N	N	100	40	
H230850R	N	7	N	N	100	150	<50	N	100	40	
H230900R	N	10	N	N	150	<50	N	N	150	40	
H230950R	N	5	N	N	100	<50	N	N	50	40	
H231000R	N	10	N	N	150	<50	N	N	100	40	
H231050R	N	10	N	N	150	<50	N	N	500	40	
H231100R	N	7	N	N	150	<50	N	N	100	40	
H231150R	N	5	N	N	100	<50	N	N	50	40	
H231200R	N	<5	N	N	100	<50	N	N	50	40	
H231250R	N	7	N	N	150	<50	N	N	100	40	
H231300R	N	7	N	N	150	<50	N	N	150	40	
H231350R	N	5	N	N	100	<50	N	N	50	40	
H231400R	N	5	N	N	70	<50	N	N	50	40	
H231470R	N	5	N	N	100	<50	N	N	100	40	

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE RESIDUE SAMPLES FROM DRILL HOLE NO. H24, HARRISON 1 X 2

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Fe-ppm s	Mg-ppm s	Ca-ppm. s	Ti-ppm. s	Mn-ppm s	As-ppm s	Au-ppm s	Ba-ppm s
H24R0015	.70	.07	<.05	.070	.20	N	N	70
H24R0025	.30	.05	<.05	.030	300	N	N	70
H24R0035	.20	.05	<.05	.030	100	N	N	50
H24R0045	.50	.07	<.05	.070	150	N	N	100
H24R0055	.05	<.02	.30	.010	100	N	N	100
H24R0065	.20	.02	.10	.015	200	N	N	100
H24R0075	.30	.02	.20	.015	200	N	N	100
H24R0085	1.00	.03	.20	.020	200	N	N	100
H24R0095	.15	.03	.30	.015	20	N	N	10
H24R0105	.05	.02	.30	.007	200	N	N	<20
H24R0115	.15	.02	.07	.010	10	N	N	70
H24R0125	.05	.02	.30	.007	10	N	N	70
H24R0135	.10	.02	.30	.015	15	N	N	70
H24R0145	.05	.02	.30	.010	10	N	N	50
H24R0155	.17	.02	.20	.010	15	N	N	50
H24R0165	<.05	<.02	.15	.005	10	N	N	<20
H24R0175	.05	.02	.15	.010	<10	N	N	30
H24R0185	.07	.02	.10	.015	<10	N	N	50
H24R0195	.10	<.02	.05	.010	<10	N	N	<20
H24R0205	.15	<.02	.15	.015	<10	N	N	50
H24R0215	.07	<.02	<.05	.010	<10	N	N	20
H24R0225	.10	<.02	.05	.015	<10	N	N	<20
H24R0235	.10	.02	.07	.015	<10	N	N	30
H24R0245	.07	.02	.07	.020	<10	N	N	50
H24R0255	.15	.02	.05	.030	<10	N	N	30
H24R0265	.10	.05	.15	.020	<10	N	N	50
H24R0275	.20	.10	.15	.050	<10	N	N	70
H24R0285	.10	.05	.30	.020	<10	N	N	70
H24R0295	.20	.10	.30	.050	20	N	N	100
H24R0305	.50	.20	.20	.100	20	N	N	100
H24R0315	15.00	1.00	.20	.300	500	N	N	200
H24R0325	15.00	.50	2.00	.100	700	N	N	150
H24R0335	20.00	.10	1.00	.070	300	N	N	200
H24R0345	1.00	1.00	.30	.500	500	N	N	200
H24R0355	5.00	1.00	1.50	.500	100	N	N	300
H24R0365	1.50	1.00	<.05	.500	100	N	N	200
H24R0375	2.00	1.50	<.05	.500	150	N	N	300
H24R0385	15.00	*10	.05	.100	70	N	N	100
H24R0395	1.50	.15	<.05	.200	30	N	N	50
H24R0405	10.00	.50	.05	.300	30	N	N	100
H24R0415	1.50	.20	.07	.200	20	N	N	200
H24R0425	1.50	.10	<.05	.050	15	N	N	150
H24R0435	5.00	.70	.10	.200	50	N	N	200
H24R0445	3.00	.50	.05	.500	50	N	N	150
H24R0455	2.00	.70	.07	.500	30	N	N	300

TABLE 3.— SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H24, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.--Continued

Sample	Ba-ppm	Ri-ppm	Cd-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm
H24R0015	N	N	<5	50	<5	<5	N	10	<1.0	
H24R0025	N	N	<5	30	<5	<5	N	10	<1.0	
H24R0035	N	N	<5	20	<5	<5	N	10	<1.0	
H24R0045	<1.0	N	<5	30	<5	<5	N	15	<1.0	
H24R0055	N	N	<5	15	<5	<5	N	7	<1.0	
H24R0065	N	N	<5	20	<5	<5	N	10	<1.0	
H24R0075	N	N	<5	20	<5	<5	N	10	<1.0	
H24R0085	N	N	<5	30	<5	<5	N	10	<1.0	
H24R0095	N	N	<5	15	<5	<5	N	10	<1.0	
H24R0105	N	N	<5	15	<5	<5	N	10	<1.0	
H24R0115	N	N	<5	20	<5	<5	N	10	<1.0	
H24R0125	N	N	<5	15	<5	<5	N	10	<1.0	
H24R0135	N	N	<5	15	<5	<5	N	10	<1.0	
H24R0145	N	N	<5	20	<5	<5	N	10	<1.0	
H24R0155	N	N	<5	15	<5	<5	N	10	<1.0	
H24R0165	N	N	<5	10	<5	<5	N	10	<1.0	
H24R0175	N	N	<5	15	<5	<5	N	10	<1.0	
H24R0185	N	N	<5	20	<5	<5	N	10	<1.0	
H24R0195	N	N	<5	15	<5	<5	N	10	<1.0	
H24R0205	N	N	<5	15	<5	<5	N	10	<1.0	
H24R0215	N	N	<5	15	<5	<5	N	10	<1.0	
H24R0225	N	N	<5	20	<5	<5	N	10	<1.0	
H24R0235	N	N	<5	20	<5	<5	N	10	<1.0	
H24R0245	N	N	<5	<10	<5	<5	N	7	<1.0	
H24R0255	N	N	<5	<10	<5	<5	N	7	<1.0	
H24R0265	N	N	<5	<10	<5	<5	N	7	<1.0	
H24R0275	N	N	<5	10	<5	<5	N	10	<1.0	
H24R0285	N	N	<5	10	<5	<5	N	10	<1.0	
H24R0295	N	N	<5	10	<5	<5	N	15	<1.0	
H24R0305	<1.0	N	5	15	<5	<5	N	20	<1.0	
H24R0315	1.5	N	50	100	15	15	N	3,000	30	
H24R0325	1.0	N	300	30	100	100	N	>5,000	20	
H24R0335	<1.0	N	1,000	15	1,500	50	N	>5,000	10	
H24R0345	1.5	N	7	100	15	<20	N	20	70	
H24R0355	1.5	N	200	100	100	<20	N	1,000	100	
H24R0365	2.0	N	10	100	50	15	<20	50	30	
H24R0375	2.0	N	10	150	70	15	<20	50	50	
H24R0385	<1.0	N	<5	<10	30	50	N	20	<1.0	
H24R0395	<1.0	N	<5	<10	10	7	N	20	<1.0	
H24R0405	1.0	N	5	50	30	7	N	20	15	
H24R0415	<1.0	N	<5	20	77	5	N	15	1.0	
H24R0425	N	N	<5	15	5	5	N	10	<1.0	
H24R0435	1.0	N	5	50	30	20	N	10	20	
H24R0445	1.0	N	5	70	20	15	N	15	<1.0	
H24R0455	1.0	N	5	100	100	10	N	15	15	

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE RESIDUE SAMPLES FROM DRILL HOLE NO. H24, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.--Continued

Sample	Sh-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Form
H24R0015	N	<5	N	N	50	<50	N	N	100	N	31
H24R0025	N	<5	N	N	30	<50	N	N	10	N	31
H24R0035	N	<5	N	N	30	<50	N	N	10	N	31
H24R0045	N	5	N	N	50	<50	N	N	30	N	31
H24R0055	N	N	N	N	20	<50	N	N	N	N	31
H24R0065	N	N	N	N	20	<50	N	N	<10	N	31
H24R0075	N	N	N	N	30	<50	N	N	<10	N	31
H24R0085	N	N	N	N	50	<50	N	N	20	N	31
H24R0095	N	N	N	N	30	<50	N	N	100	N	31
H24R0105	N	N	N	N	20	<50	N	N	N	N	31
H24R0115	N	N	N	N	30	<50	N	N	N	N	31
H24R0125	N	N	N	N	20	<50	N	N	N	N	31
H24R0135	N	N	N	N	20	<50	N	N	N	N	31
H24R0145	N	N	N	N	20	<50	N	N	N	N	31
H24R0155	N	N	N	N	30	<50	N	N	N	N	31
H24R0165	N	N	N	N	15	<50	N	N	<200	N	31
H24R0175	N	N	N	N	10	<50	N	N	<200	N	31
H24R0185	N	N	N	N	20	<50	N	N	N	N	31
H24R0195	N	N	N	N	15	<50	N	N	N	N	31
H24R0205	N	N	N	N	15	<50	N	N	<200	N	31
H24R0215	N	N	N	N	15	<50	N	N	N	N	31
H24R0225	N	N	N	N	15	50	N	N	N	N	31
H24R0235	N	N	N	N	15	50	N	N	N	N	31
H24R0245	N	N	N	N	100	<50	N	N	N	N	31
H24R0255	N	N	N	N	100	<50	N	N	N	N	31
H24R0265	N	N	N	N	100	20	N	N	N	N	31
H24R0275	N	N	N	N	100	30	N	N	N	N	31
H24R0285	N	N	N	N	100	30	N	N	N	N	31
H24R0295	N	N	N	N	100	50	N	N	N	N	31
H24R0305	N	N	N	N	100	50	N	N	N	N	31
H24R0315	20	<10	N	N	100	<50	15	200	100	N	31
H24R0325	7	N	N	N	30	<50	<10	<200	30	N	31
H24R0335	5	N	N	N	30	<50	10	300	50	N	31
H24R0345	15	N	N	N	100	<50	15	<200	100	N	31
H24R0355	15	N	N	N	100	<50	20	<200	150	N	31
H24R0365	20	N	N	N	150	<50	20	<200	150	N	30
H24R0375	20	N	N	N	200	<50	20	<200	100	N	30
H24R0385	<5	N	N	N	20	<50	N	N	20	N	39
H24R0395	<5	N	N	N	15	<50	N	N	150	N	39
H24R0405	5	N	N	N	100	<50	30	<50	100	N	39
H24R0415	5	N	N	N	100	<50	20	<50	50	N	39
H24R0425	N	N	N	N	100	<50	10	<50	30	N	39
H24R0435	5	N	N	N	100	<50	50	<50	70	N	39
H24R0445	7	N	N	N	100	<50	50	<50	100	N	39
H24R0455	7	N	N	N	100	<50	50	<50	100	N	39

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H24, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.--Continued

Sample	Fe-pct.	Mg-pct.	Ca-pct.	Ti-oct.	Mn-pptm	As-pptm	Au-pptm	B-pptm
H24R0465	2.00	.70	<.05	.500	30	N	150	500
H24R0475	5.00	1.00	<.05	.500	20	N	200	500
H24R0485	1.00	.07	.10	.050	10	N	100	150
H24R0495	5.00	1.00	<.05	.500	20	N	150	500
H24R0505	7.00	.70	<.05	.300	20	N	150	200
H24R0515	5.00	.70	.05	.700	20	N	100	500
H24R0525	.15	.15	.10	.100	10	N	50	200
H24R0535	3.00	1.00	.05	.700	30	N	200	300
H24R0545	10.00	1.00	.10	.500	15	N	200	500
H24R0555	1.00	.20	.05	.200	10	N	100	200
H24R0565	.10	.07	.10	.070	10	N	100	200
H24R0575	.50	.50	.05	.300	15	N	100	500
H24R0585	.20	.20	.05	.300	10	N	100	500
H24R0595	1.50	.50	.10	.500	20	N	100	500
H24R0605	.70	.50	.05	.200	15	N	100	300
H24R0695	1.50	.50	.05	.300	20	N	100	200
H24R0785	5.00	1.00	.05	.500	50	<.5	200	300
H24R0885	5.00	.50	<.05	.200	20	<.5	100	200
H24R0895	2.00	.50	.20	.200	20	N	100	200
H24R0975	.07	<.02	<.05	.007	<10	N	50	20
H24R0985	1.00	.50	<.05	.200	15	N	100	200
H24R0995	3.00	.30	.07	.150	20	N	100	150
H24R1005	.30	.50	.15	.100	10	N	50	150
H24R1015	<.05	<.02	<.05	.005	<10	N	30	50
H24R1025	.05	<.02	<.05	.002	10	N	30	50
H24R1045	.30	.20	.10	.100	15	N	50	150
H24R1075	.10	.02	<.05	.007	10	N	10	100
H24R1085	.20	.07	<.05	.050	10	N	15	100
H24R1095	.30	.15	.07	.030	10	N	30	100
H24R1105	.15	.05	<.05	.020	15	N	30	100
H24R1115	.10	.10	.15	.050	10	N	20	100
H24R1125	.20	.07	.05	.070	10	N	10	100
H24R1135	<.05	.02	<.05	.007	10	N	20	50
H24R1145	1.00	.50	.20	.200	15	N	50	150
H24R1155	.05	.02	<.05	.020	10	N	10	30
H24R1165	<.05	.02	.05	.005	10	N	<10	50
H24R1175	.30	.20	.07	.100	10	N	50	150
H24R1185	<.05	.07	.07	.050	10	N	30	50
H24R1195	1.00	.30	.30	.070	15	N	50	100
H24R1205	7.00	.07	.10	.050	20	<.5	200	30
H24R1215	1.00	.50	.05	.200	15	N	70	150
H24R1225	.10	.05	.15	.010	10	N	50	50
H24R1235	1.50	.02	.05	.005	10	N	30	20
H24R1245	1.00	.15	.05	.070	10	N	50	100
H24R1255	<.05	.05	.05	.010	10	N	50	70

TABLE 3.— SPECTROGRAPHIC ANALYSES OF INSOLUBLE — RESIDUE SAMPLES FROM DRILL HOLE NO. H24, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.—Continued

Sample	Ber.-ppm s	Ri-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
H24R0465	1.0	N	N	7	100	50	N	5	<20	15	15
H24R0475	1.5	N	20	100	100	50	N	7	<20	50	50
H24R0485	<1.0	N	50	15	50	5	N	<5	N	50	<10
H24R0495	1.0	N	20	100	50	5	N	5	N	30	30
H24R0505	1.0	N	5	100	20	N	7	N	20	20	10
H24R0515	1.0	N	15	100	20	N	<5	N	50	50	15
H24R0525	N	N	<5	20	5	N	N	N	7	<10	10
H24R0535	1.0	N	5	100	20	N	5	<20	20	20	10
H24R0545	1.0	N	7	100	30	N	<5	N	30	30	50
H24R0555	<1.0	N	<5	20	10	N	5	N	10	10	<10
H24R0565	N	N	<5	15	<5	N	<5	N	7	<10	10
H24R0575	<1.0	N	<5	50	10	N	<5	N	15	15	10
H24R0585	<1.0	N	<5	30	7	N	<5	N	5	<10	5
H24R0595	1.0	N	<5	50	10	N	5	N	15	15	10
H24R0605	<1.0	N	<5	30	5	N	<5	N	10	<10	10
H24R0695	<1.0	N	5	50	20	N	7	N	20	20	10
H24R0785	1.5	N	10	100	100	N	50	N	50	50	20
H24R0885	1.0	N	7	50	20	N	<5	N	30	30	50
H24R0895	<1.0	N	5	50	15	N	70	N	20	20	10
H24R0975	N	N	<5	15	<5	N	<5	N	<5	<5	<10
H24R0985	1.0	N	<5	50	15	N	7	N	15	15	10
H24R0995	<1.0	N	<5	50	30	N	<5	N	10	<10	10
H24R1005	N	N	<5	30	5	N	<5	N	7	<10	5
H24R1015	N	N	<5	15	<5	N	<5	N	5	<10	5
H24R1025	N	N	<5	15	150	N	<5	N	5	<10	10
H24R1045	N	N	<5	20	<5	N	10	N	7	<10	10
H24R1075	N	N	<5	15	<5	N	<5	N	7	<10	10
H24R1085	N	N	<5	15	<5	N	<5	N	7	<10	10
H24R1095	N	N	<5	15	<5	N	<5	N	7	<10	10
H24R1105	N	N	<5	15	<5	N	<5	N	10	<10	10
H24R1115	N	N	<5	15	50	N	<5	N	7	<10	10
H24R1125	N	N	<5	15	<5	N	<5	N	7	<10	10
H24R1135	N	N	<5	15	<5	N	<5	N	5	<10	10
H24R1145	<1.0	N	<5	30	5	N	<5	N	10	<10	5
H24R1155	N	N	<5	10	<5	N	<5	N	5	<10	5
H24R1165	N	N	<5	10	5	N	<5	N	5	<10	5
H24R1175	N	N	<5	10	<5	N	<5	N	7	<10	10
H24R1185	N	N	<5	10	<5	N	<5	N	<5	<10	10
H24R1195	N	N	<5	10	7	N	5	N	10	<10	10
H24R1205	N	N	<5	10	30	N	5	N	15	15	100
H24R1215	1.0	N	<5	30	7	N	5	N	7	<10	10
H24R1225	N	N	<5	10	7	N	<5	N	7	<10	10
H24R1235	N	N	<5	10	5	N	<5	N	7	<10	10
H24R1245	N	N	<5	15	7	N	<5	N	5	<10	5
H24R1255	N	N	<5	10	<5	N	<5	N	5	<10	5

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H24, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.--Continued

Sample	Sb-ppm	Sc-ppm	Sn-ppm	Sr-ppm	V-ppm	W-ppm	Y-ppm	Zn-ppm	Zr-ppm	Th-ppm	Form
H24R0465	7	N	N	1.00	70	<50	1.0	N	100	N	39
H24R0475	10	N	N	<1.00	100	<50	1.0	N	100	N	39
H24R0485	<5	N	200	<10	<50	<1.0	100	N	100	N	39
H24R0495	7	N	<1.00	100	<50	1.0	N	100	N	N	39
H24R0505	5	N	<1.00	50	<50	N	N	N	N	N	39
H24R0515	5	N	<1.00	70	<50	1.0	N	N	N	N	39
H24R0525	<5	N	150	15	<50	N	N	150	150	N	39
H24R0535	7	N	<1.00	50	<50	1.5	N	N	50	N	39
H24R0545	N	N	<1.00	150	<50	1.0	N	100	100	N	39
H24R0555	N	N	<1.00	30	<50	N	N	150	150	N	39
H24R0565	N	N	N	1.00	15	<50	N	70	70	N	39
H24R0575	N	N	5	<1.00	50	<50	1.0	30	30	N	39
H24R0585	N	N	5	1.500	30	<50	1.0	100	100	N	39
H24R0595	N	N	5	7.00	50	<50	1.0	100	100	N	39
H24R0605	N	N	5	<1.00	20	<50	1.0	150	150	N	39
H24R0695	5	N	N	<1.00	50	<50	<1.0	300	300	N	39
H24R0785	10	N	N	<1.00	70	<50	<1.0	100	100	N	39
H24R0885	5	N	N	<1.00	50	<50	<1.0	100	100	N	39
H24R0895	<5	N	N	<1.00	20	<50	<1.0	70	70	N	39
H24R0975	<5	N	N	<1.00	10	<50	<1.0	50	50	N	39
H24R0985	<5	N	N	<1.00	50	<50	<1.0	N	N	N	39
H24R0995	<5	N	N	<1.00	50	<50	<1.0	70	70	N	39
H24R1005	<5	N	N	<1.00	20	<50	<1.0	30	30	N	39
H24R1015	<5	N	N	<1.00	10	<50	<1.0	15	15	N	39
H24R1025	N	N	N	<1.00	<10	<50	<1.0	10	10	N	39
H24R1045	N	N	N	<1.00	20	<50	<1.0	<200	<200	N	39
H24R1075	N	N	N	<1.00	10	<50	<1.0	30	30	N	39
H24R1085	N	N	N	<1.00	20	<50	<1.0	70	70	N	39
H24R1095	N	N	N	<1.00	15	<50	<1.0	N	N	N	39
H24R1105	N	N	N	<1.00	20	<50	<1.0	20	20	N	39
H24R1115	N	N	N	<1.00	20	<50	<1.0	50	50	N	19
H24R1125	N	N	N	<1.00	20	<50	<1.0	50	50	N	19
H24R1135	N	N	N	<1.00	15	<50	<1.0	N	N	N	19
H24R1145	N	N	N	<1.00	50	<50	<1.0	100	100	N	19
H24R1155	N	N	N	<1.00	10	<50	<1.0	20	20	N	19
H24R1165	N	N	N	<1.00	10	<50	<1.0	2,000	2,000	N	19
H24R1175	N	N	N	<1.00	20	<50	<1.0	50	50	N	19
H24R1185	N	N	N	<1.00	<10	<50	<1.0	N	N	N	19
H24R1195	N	N	N	<1.00	20	<50	<1.0	<200	<200	N	19
H24R1205	N	N	N	<1.00	15	<50	<1.0	50	50	N	19
H24R1215	N	N	N	<1.00	50	<50	<1.0	1,000	1,000	N	19
H24R1225	N	N	N	<1.00	15	<50	<1.0	50	50	N	18
H24R1235	N	N	N	<1.00	10	<50	<1.0	50	50	N	18
H24R1245	N	N	N	<1.00	30	<50	<1.0	50	50	N	18
H24R1255	N	N	N	<1.00	15	<50	<1.0	50	50	N	18

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H24, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.--Continued

Sample	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppt. s	As-ppt. s	Au-ppt. s	Ba-ppt. s
H24R1265	.20	.02	.05	.002	10	N	20	50
H24R1275	<.05	<.02	<.05	.015	10	N	50	<20
H24R1285	<.05	<.02	<.05	.007	<10	N	30	20
H24R1295	.05	.02	<.05	.010	<10	N	50	30
H24R1385	.05	.02	<.05	.010	<10	N	30	50
H24R1395	.10	.10	<.05	.070	<10	N	30	100
H24R1405	<.05	.02	<.05	.010	<10	N	20	50
H24R1415	<.05	<.02	<.05	.007	<10	N	50	20
H24R1425	.10	.02	<.05	.020	<10	N	30	30
H24R1435	.20	.07	<.05	.050	<10	N	20	20
H24R1445	.15	.05	<.05	.030	<10	N	30	20
H24R1455	.30	.10	<.05	.100	<10	N	50	20
H24R1465	.30	.07	<.05	.050	<10	N	50	50
H24R1475	.70	.10	<.05	.070	<10	N	30	50
H24R1485	.30	.07	.10	.020	<10	N	30	<20
H24R1495	2.00	.50	.07	.200	<10	N	50	100
H24R1505	20.00	.03	.05	.005	50	1.0	70	20
H24R1515	10.00	.50	.05	.500	30	<.5	50	50
H24R1525	1.50	.50	.07	.200	<10	N	50	200
H24R1535	.70	.02	<.05	.015	<10	N	70	N
H24R1545	.07	<.02	<.05	.010	<10	N	<10	<20
H24R1555	<.05	<.02	<.05	.007	<10	N	<10	N
H24R1565	.10	.02	<.05	.010	<10	N	<10	<20
H24R1575	.50	.05	<.05	.010	<10	N	20	50
H24R1585	.30	.03	<.05	.007	<10	N	10	20
H24R1595	.50	.10	.07	.050	10	N	30	1,000

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H24, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.--Continued

Sample	Be-ppm	Ri-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	S
H24R1265	N	N	N	<5	1.0	<5	N	<5	N	N	5	<10
H24P1275	N	N	N	<5	1.0	<5	N	<5	N	N	5	<10
H24R1285	N	N	N	<5	<10	<5	N	<5	N	N	5	<10
H24R1295	N	N	N	<5	<10	<5	N	<5	N	N	5	<10
H24R1385	N	N	N	<5	<10	<5	N	<5	N	N	7	<10
H24R1395	N	N	N	<5	<10	<5	N	<5	N	N	7	<10
H24R1405	N	N	N	<5	<10	<5	N	<5	N	N	7	<10
H24R1415	N	N	N	<5	<10	<5	N	<5	N	N	7	<10
H24R1425	N	N	N	<5	<10	<5	N	<5	N	N	7	<10
H24R1435	N	N	N	<5	<10	<5	N	<5	N	N	7	<10
H24R1445	N	N	N	<5	1.0	<5	N	5	N	N	7	<10
H24R1455	N	N	N	<5	15	<5	N	7	N	N	7	<10
H24R1465	N	N	N	<5	<10	<5	N	5	N	N	7	<10
H24R1475	U	N	N	<5	<10	<5	N	10	N	N	7	100
H24R1485	H	N	N	<5	<10	<5	N	<5	N	N	10	<10
H24R1495	1.0	N	N	5	20	20	N	100	N	N	70	15
H24R1505	N	N	N	7	N	100	N	50	N	N	70	150
H24R1515	1.0	N	N	7	50	70	N	50	N	N	10	20
H24R1525	<1.0	N	N	<5	15	20	N	10	N	N	5	<10
H24R1535	N	N	N	N	20	<5	N	<5	N	N	5	<10
H24R1545	N	N	N	N	10	<5	N	<5	N	N	5	<10
H24R1555	N	N	N	<10	<10	<5	N	<5	N	N	5	<10
H24R1565	N	N	N	<10	<10	<5	N	<5	N	N	5	<10
H24R1575	N	N	N	<10	<10	<5	N	<5	N	N	5	<10
H24R1585	N	N	N	<10	<10	10	N	5	N	N	5	<10
H24R1595	N	N	N	<5	15	10	N	7	N	N	10	10

TABLE 3.— SPECTROGRAPHIC ANALYSES OF INSOLUBLE - RESIDUE SAMPLES FROM DRILL HOLE NO. H24, HARRISON 1 X 2
QUADRANGLE, MISSOURI AND ARKANSAS.—Continued

Sample	Sb-ppm	Sc-ppm	Sn-ppm	Sr-ppm	V-ppm	W-ppm	Y-ppm	Zn-ppm	Zr-ppm	Th-ppm	Form
H24R1265	N	N	N	<100	10	<50	N	N	N	18	
H24R1275	N	N	N	<100	15	<50	N	N	N	18	
H24R1285	N	N	N	<100	10	<50	N	N	N	18	
H24R1295	N	N	N	<100	15	<50	N	N	N	18	
H24R1385	N	N	N	<100	15	<50	N	N	N	18	
H24R1395	N	N	N	<100	20	<50	N	N	N	18	
H24R1405	N	N	N	<100	15	<50	N	N	N	18	
H24R1415	N	N	N	<100	15	<50	N	N	N	18	
H24R1425	N	N	N	<100	20	<50	N	N	N	18	
H24R1435	N	N	N	<100	30	<50	N	N	N	18	
H24R1445	N	N	N	<100	50	<50	N	N	N	18	
H24R1455	N	N	N	<100	50	<50	N	N	N	18	
H24R1465	N	N	N	<100	20	<50	N	N	N	18	
H24R1475	N	N	N	<100	30	<50	N	N	N	18	
H24R1485	N	N	N	<100	10	<50	N	N	N	18	
H24R1495	N	N	N	<100	50	<50	N	N	N	18	
H24R1505	N	N	N	<100	<10	<50	N	N	N	18	
H24R1515	N	N	N	<100	100	<50	10	N	N	18	
H24R1525	N	N	N	<100	20	<50	N	N	N	18	
H24R1535	N	N	N	<100	10	<50	N	N	N	18	
H24R1545	N	N	N	<100	10	<50	N	N	N	17	
H24R1555	N	N	N	<100	15	<50	N	N	N	17	
H24R1565	N	N	N	<100	15	<50	N	N	N	17	
H24R1575	N	N	N	<100	15	<50	N	N	N	17	
H24R1585	N	N	N	<100	15	<50	N	N	N	16	
H24R1595	N	N	N	N	15	<50	N	N	N	16	